ORDER NO. TD94120496C2

Service Manual

Radio Cassette

DOLBY SYSTEM*

Stereo Radio Cassette Player

RQ-V196

Colour

(K)····· Black Type

Area

Suffix for Model No.	Areas	Colour
[EG]	Europe	(K)

■ SPECIFICATIONS

General:

Power Requirement:	Battery; 3V [Two "AA" size, (R6/LR6) batteries] AC; with optional AC adaptor RP-AC31
Power Output:	10mW (5mW × 2)···RMS (max.)
Input:	DC IN; 3V (⟐⊂⟐)
Output:	Headphones; 16Ω, φ3.5
Dimensions:	114.3(W) × 84.5(H) × 37.5(D)mm
Weight:	182g without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5 ~ 108MHz (0.05MHz step) AM; 522 ~ 1611kHz(9kHz step)
Intermediate Frequency:	FM; 10.7MHz AM; 459kHz
Sensitivity:	FM; 5.62μV/0.1mW output (−3dB Limit, Sens) AM; 251μV/m/0.1mW output

Tape Deck Section:

Frequency Response:	40 ~ 16,000Hz (Normal, CrO_2/Metal)
Tape Speed:	4.8cm/s
Program Time:	1 hour with C-60 cassette tape
Track System:	4-track, 2-channel stereo playback

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic®

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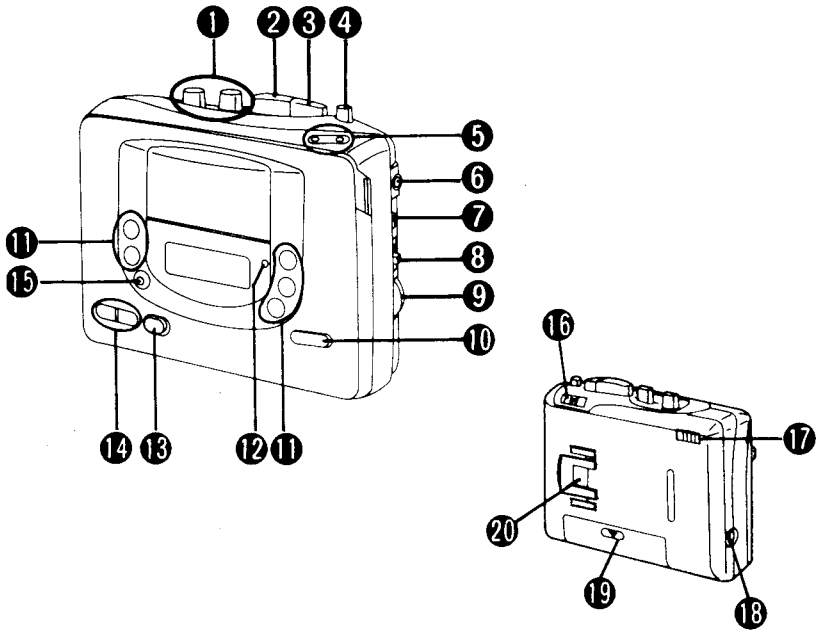
■ LOCATION OF CONTROLS



❶ Fast buttons (FAST)
❷ Playback button (PLAY)
❸ Stop button (STOP)
❹ Direction button (DIR)
❺ Direction indicators (FWD, REV)
❻ Headphones jack ( ) 16Ω, φ3.5
❼ Operation/battery check indicator (OPR/BATT)
❽ FM mode / Dolby NR selector (FM MODE / □□ NR)
❾ Volume control (VOLUME)
❿ Hold switch (HOLD)
⓫ Memory buttons (1,2,3,4,5)
⓬ Tuning indicator (TUNING)
⓭ Radio on, off button (RADIO ON/OFF)
⓮ Tuning buttons (– TUNING +)
⓯ Band, mode select button (●FM/AM, ▬MODE)
⓰ XBS switch (XBS)
⓱ TAPE selector (CrO_2 MTL NOR)
⓲ DC input jack (DC IN 3 V ⟐-●-⟐)
⓳ Battery compartment cover
⓴ Belt clip receptacle

■ DISASSEMBLY INSTRUCTIONS

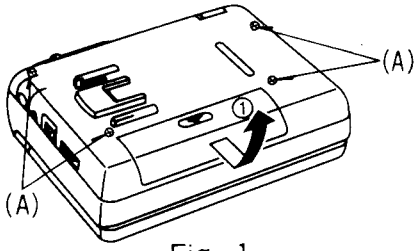


Fig. 1

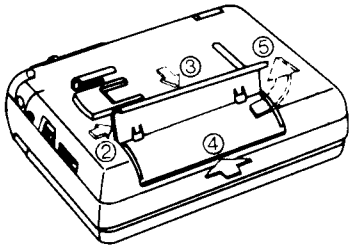


Fig. 2

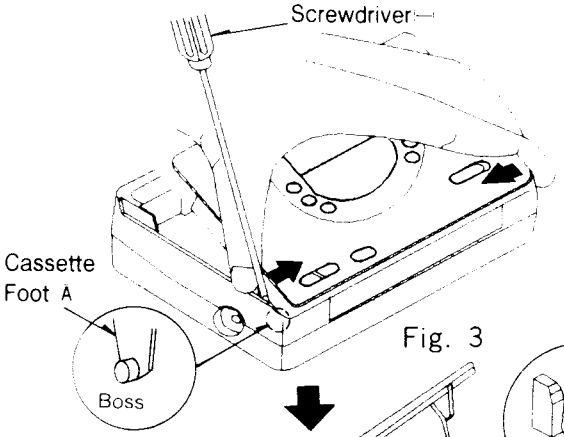


Fig. 3

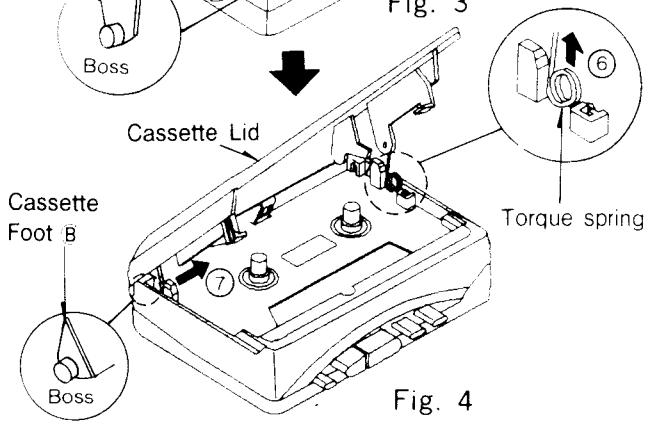


Fig. 4

● Removal of the battery cover and Rear Cabinet

1. Open the battery cover in the direction of arrow①.
2. Remove the battery cover in the direction of arrow ② and ③.
3. Remove the screws (A) (2×10)mm×4.
4. Remove the rear cabint in the direction of arrow④ & ⑤.

● How to Removal of the Cassette Lid

Note: Be careful not to break cassette foots Ⓐ and Ⓑ when removing the cassette lid.

1. Strongly press two sides of the cassette lid, then it was bent a little.
2. With a (–) screwdriver as shown in Fig 3, and pull out the right-side of the cassette lid.
3. Remove the torque spring ⑥ in the direction of arrow.
4. By the direction of ⑦, remove the cassette foot.

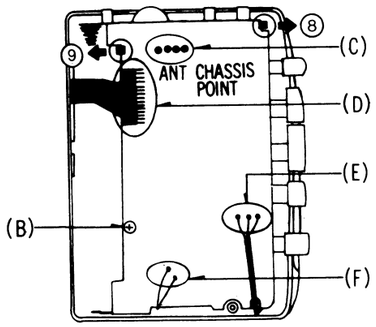


Fig. 5

●Removal of ANT Chassis and Circuit Board (Fig. 5)

1. Remove the screw (B) (2×6)mm×1.
2. Disconnect the solder(C).
3. Remove the ANT chassis in the direction of arrow ⑧, ⑨.
4. Remove the solder(D).(E).(F) from flexible P.C.B.

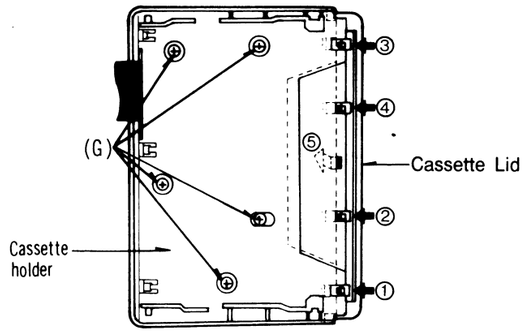


Fig. 6

●Removal of the LCD P.C.B. (Fig. 6)

1. Remove the screws (G) (1.4×3.5)mm×5.
2. Remove the Cassette holder in the direction of arrow ①,②,③,④,⑤.
3. Remove the LCD P.C.B.

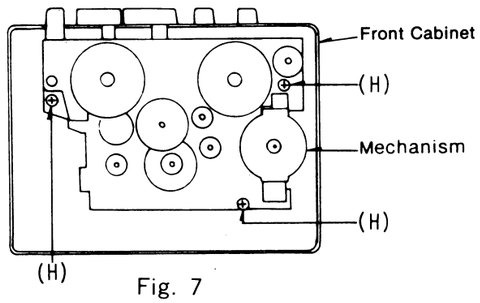


Fig. 7

●Removal of the Front Cabinet and Mechanism

1. Remove the deck screws (H) (2×6)mm×3.
2. Remove the front cabinet & mechanism

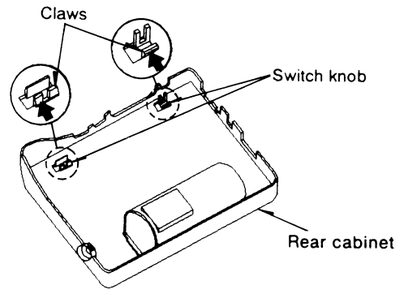
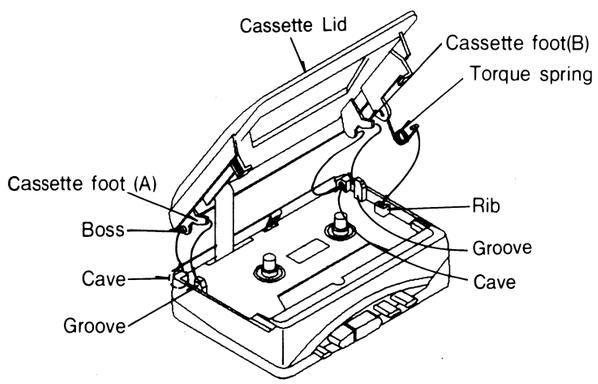


Fig. 8

● Removal of the switch knobs (Fig. 8)

1. Release the claws of knobs in the direction of arrow, and then remove the switch knobs.



●How to Replace the Cassette Lid Spring

1. Enter the cassette foot (A) into the groove of the case body.
2. Enter the boss of the cassette foot into the cave.
3. To plug the torque spring into the groove of the case body.
4. Enter the cassette foot (B) into the groove of the case body.

■REPLACEMENT PARTS LIST

Ⓣ Indicates parts that are supplied by TAMACO

Ref. No.	Parts No.	Parts Name & Description
	INTEGRATED CIRCUITS, TRANSISTORS AND DIODES	
IC1	**AN6612SE2**	I.C. MOTOR DRIVE
IC2 Ⓣ	**TA8122AFT**	I.C. AM RF AM/FM IF AMP
IC3 Ⓣ	**LA4571MBT**	I.C. PRE/POWER AMP
IC4 Ⓣ	**BA1106FT**	I.C. MOTOR DRIVE
IC201 Ⓣ	**TC9316FB042**	I.C. MICRO COMPUTER
IC202	**S80719SLAGT1**	I.C. RESET
IC203	**TD6134AFT**	I.C. RESET
Q1,3,5 ,11 Ⓣ	**RVTDTC144EUX**	Digital Transistor
Q2,6,13 Ⓣ	**2SA1577QT106**	Digital Transistor
Q4 Ⓣ	**RVTDTA143XUX**	Digital Transistor
Q7	**2SB1132RTX**	Transistor
Q8 Ⓣ	**RVTDTC143TUX**	Transistor
Q9 Ⓣ	**RVTDTC124EUX**	Transistor
Q10 Ⓣ	**2SC4326LKSTX**	Transistor
Q14 Ⓣ	**RVTDTA124EUX**	Transistor
Q201,202, 204,205 Ⓣ	**2SC4081RTX**	Transistor
Q203 Ⓣ	**2SK303V3TB**	F.E.T.
D1 Ⓣ	**SB07-03CTX**	Diode
D2 Ⓣ	**L1144HDL58**	L.E.D.
D3,4 Ⓣ	**KV1450TL3-4**	Diode
D5,201 Ⓣ	**RVDDAN202UTX**	Diode
D6 Ⓣ	**KV1560TL3-0**	Diode
D204	**LN1261CTR**	L.E.D.
D205 Ⓣ	**DCC010TX**	Diode
D206 Ⓣ	**DZD12YTB**	Diode
	COILS AND TRANSFORMERS	
L1 Ⓣ	**RLO4Y254-L**	Antenna Coil FM
L2 Ⓣ	**RLO4Y15-2**	Oscillator Coil FM
L3 Ⓣ	**RLO2A011M-M**	Antenna Coil AM
L4 Ⓣ	**REKT0006**	Ferrite Bar Antenna Ass'y (Withe Antenna Chassis)
L5 Ⓣ	**RLQZ010KM-M**	Choke Coil
L201 Ⓣ	**RLO9U019T-M**	Oscillator Coil
T1 Ⓣ	**RLI2A37M-M**	I.F.T. AM
	VARIABLE RESISTORS	
VR1 Ⓣ	**EVNDXAA02B32**	V.R. Tape Speed
VR2	**EVUBAAT50A54**	V.R. Volume Control
	TRIMMER CAPACITOR	
CT1	**ECRLA010A53R**	Trimmer CAP
	CERAMIC FILTERS AND CRYSTAL	
CF1,2 Ⓣ	**RLFFETWL05AD**	Ceramic Filter FM
CF3 Ⓣ	**RLFDFT08AD**	Ceramic Filter FM
CF4 Ⓣ	**RVFPFA459AM**	Ceramic Filter AM
CX1 Ⓣ	**RSXZ456KM05**	Ceramic Crystal AM
	CRYSTAL	
X201 Ⓣ	**RSXD75K0S07**	Crystal
	LCD	
LCD201 Ⓣ	**RSL5124-P**	L.C.D.
	COMPONENT COMINATION	
Z1	**RCRBMT002-H**	Band Pass Filter
	SWITCHES	
S1 Ⓣ	**RSH1A021-I**	SW, Motor
S2 Ⓣ	**RSS2B54VA-K**	SW, FM MODE
S3 Ⓣ	**RSS2B013-A**	SW, Slide
S4 Ⓣ	**RSS2B018-K**	SW, Slide
S5 Ⓣ	**RFA112ZA**	SW, FWD/REV Ass'y
S201	**RSS2A006-A**	SW, HOLD
	JACKS	
J1	**RJJ43H01-C**	DC IN Jack
J2	**RJJD3S5ZB-C**	Headphones Jack

Ref. No.	Parts No.	Ref. No.	Parts No.
	RESISTORS		
R1	**ERJ6GEYJ122V**	R41,54	**ERJ3GEYJ4R7V**
R2	**ERJ3GEYJ122V**	R51	**ERJ3GEYJ103V**
R3	**ERJ3GEYJ393V**	R52,57,58, 61	**ERJ3GEYJ104V**
R4	**ERJ6GEYJ393V**	R53 Ⓣ	**ERJ6GEYJ1R8V**
R5	**ERJ3GEYJ273V**	R55	**ERJ3GEYJ153V**
R6	**ERJ6GEYJ273V**	R56	**ERJ6GEYJ152V**
R7,8,219, 220,222	**ERJ6GEYJ684V**	R59	**ERJ3GEYJ473V**
R9,10,73,204 205,210,221 228	**ERJ6GEYJ102V**	R60,67	**ERJ3GEYJ472V**
		R64	**ERJ3GEYJ470V**
		R66	**ERJ3GEYJ102V**
		R70,230	**ERJ6GEYJ151V**
R11,12	**ERJ6GEYJ473V**	R71,72	**ERJ6GEYJ563V**
R14,15	**ERJ6GEYJ681V**	R201	**ERJ6GEYJ101V**
R16,17	**ERJ3GEYJ224V**	R203	**ERJ6GEYJ333V**
R18,19	**ERJ3GEYJ822V**	R208	**ERJ6GEYJ272V**
R20	**ERJ3GEYJ560V**	R209	**ERJ6GEYJ474V**
R21,23	**ERJ3GEYJ473V**	R225	**ERJ6GEYJ153V**
R22,24	**ERJ3GEYJ332V**		
R25,27	**ERJ3GEYJ824V**		**CHIP JUMPERS**
R26	**ERJ3GEYJ434V**		
R28 Ⓣ	**ERJ6GEYJ434V**	RJ1～6	**ERJ6GEY0R00V**
R29 Ⓣ	**ERSL39JR70U**	RJ201,203	**ERJ6GEY0R00V**
R30 Ⓣ	**ERJ6GEYJ1R2V**		
R31,33	**ERJ6GEYJ821V**		
R32,206,231	**ERJ6GEYJ103V**		
R34,42,43, 215,216,217, 218	**ERJ6GEYJ472V**		
R35	**ERJ3GEYJ471V**		
R36,65	**ERJ3GEYJ223V**		
R37,68,202, 223,224,227	**ERJ6GEYJ104V**		
R38	**ERJ6GEYJ471V**		
R39,69	**ERJ6GEYJ223V**		
R40	**ERJ6GEYJ105V**		

Ref. No.	Parts No.	Ref. No.	Parts No.
	CAPACITORS		
C1,2,12,13, 40,69,87, 211,221	**ECUV1H102KBN**	C60,86,245	**ECUV1H221KBN**
		C62,63,71	**ECUV1H100DCV**
		C64	**ECUV1H391GCN**
C3 Ⓣ	**ECSX0GX226RR**	C72 Ⓣ	**ECUV1H090DCN**
C4,15	**ECEA0JKS220I**	C73 Ⓣ	**ECUV1H090DCV**
C5,6,234	**ECUV1H101KCN**	C74	**ECUV1C223MBV**
C7,8,30,32	**ECUV1H472MBV**	C78	**ECUV1H681KBN**
C9	**ECUV1H681KBV**	C84	**ECEA0GKS330I**
C10,11,23,24, 25,26,77,85, 203,204,233	**ECUVNC105ZFN**	C88,89 Ⓣ	**ECUV1C153MBN**
		C90,91	**ECUV1C473MBN**
		C201,202	**RCST0GY475RE**
C14,210	**ECST1CY105RR**	C205	**ECUV1H151KCN**
C16,29,45	**ECEA0GKS221I**	C206	**ECUV1H070DCN**
C17,80	**ECUV1C683MBN**	C208	**ECUV1H121JCN**
C18	**ECUV1H220KCV**	C212,235 Ⓣ	**RCSX1AY335RE**
C19,20	**ECUV1H150JCV**	C215,216,217, 218,219,229, 238,240,243	**ECUV1H103ZFN**
C21,22	**ECUV1H272MBV**		
C27,47,54,55	**ECUV1H102KBV**		
C28,31,34	**ECUV1C333MBV**	C222	**ECUV1C104MBN**
C33,35,207 209,228	**ECUV1E103MBN**	C226	**ECUV1H120JCN**
		C227	**ECUV1H150JCN**
C36	**ECUV1C333MBN**	C231	**RCSX0GY106RE**
C37,56,61, 67,70	**ECUV1C104ZFV**	C236	**ECUV1H331KBN**
C38,79,81,214, 223,224,225, 230,242	**ECUV1C104ZFN**		
C39,48	**ECEA1HKS010I**		
C41	**ECUV1C223MBN**		
C42,43,44	**ECUV1H221KBV**		
C50,52,76	**ECUV1H470KCV**		
C53	**ECUV1H020CCV**		
C57	**ECUV1H680KCN**		
C58,65	**ECUV1E103MBV**		
C59,83	**ECEA0GKS101I**		

■ MEASUREMENTS AND ADJUSTMENTS

● ADJUSTMENT POINT

Please refer to the Printed Circuit Board and Wiring connection Diagram for test point locations.

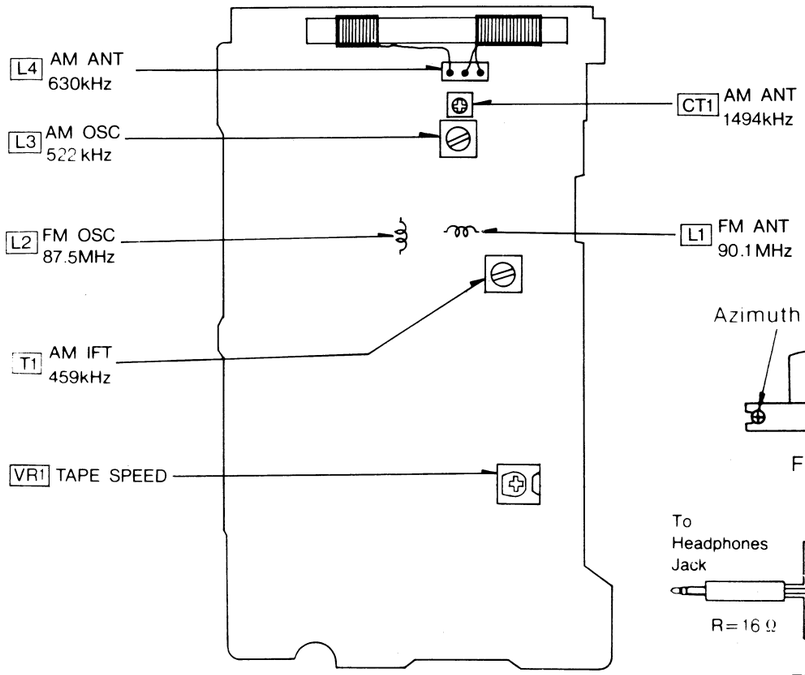


Fig. 1

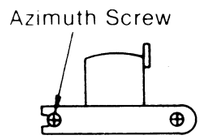


Fig. 2

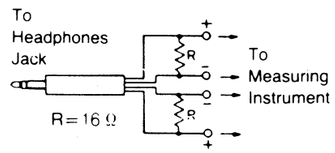
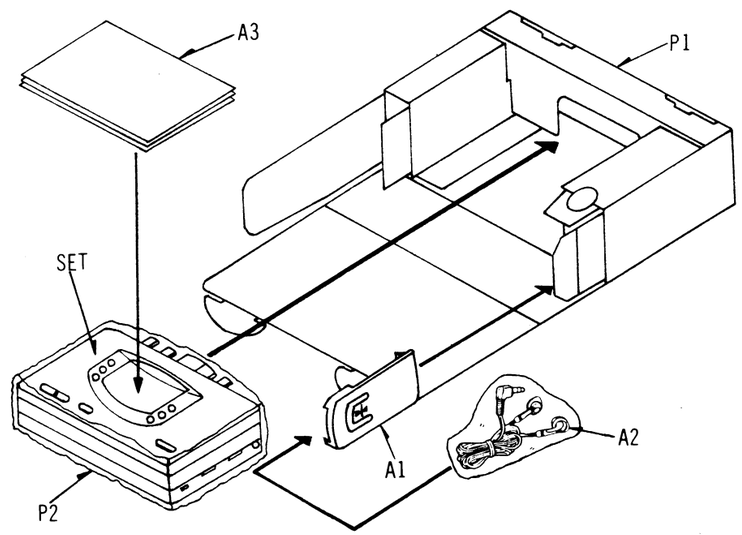


Fig. 3

■ PACKAGING



● ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set band selector switch to AM or FM.
3. Set Function selector switch to radio or tape.
4. Set Tape Selector Switch to normal.
5. Set power source voltage to 3.0V DC.
6. Output of signal generator should not be higher than necessary to obtain an output reading.
7. Make sure heads are clean.
8. Make sure capstan and pinch roller are clean.

● TUNER SECTION

AM ADJUSTMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
		CONNECTIONS	FREQUENCY				
	AM-IF ADJUSTMENT						
(1)	AM	Fashion a loop of several turns of wire and radiate signal into loop of receiver.	459kHz 30% Mod. at 400Hz	Point of non-interference. (on/about 600kHz)	Headphones Jack (16Ω) (Refer to Fig.3)	T1 (AM IFT)	Adjust for maximum output.
	AM-RF ADJUSTMENT						
(2)	AM	〃	522kHz	Tuning capacitor fully closed.	〃	L3 (AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	630kHz	Tune to signal.	〃	(*1) L4 (AM ANT Coil)	Adjust for maximum output. Adjust L4 by moving coil bobbin along ferrite core.
(4)	AM	〃	1494kHz	〃	〃	CT1 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(4).
	(*1) Cement antenna bobbin with wax after completing adjustment.						

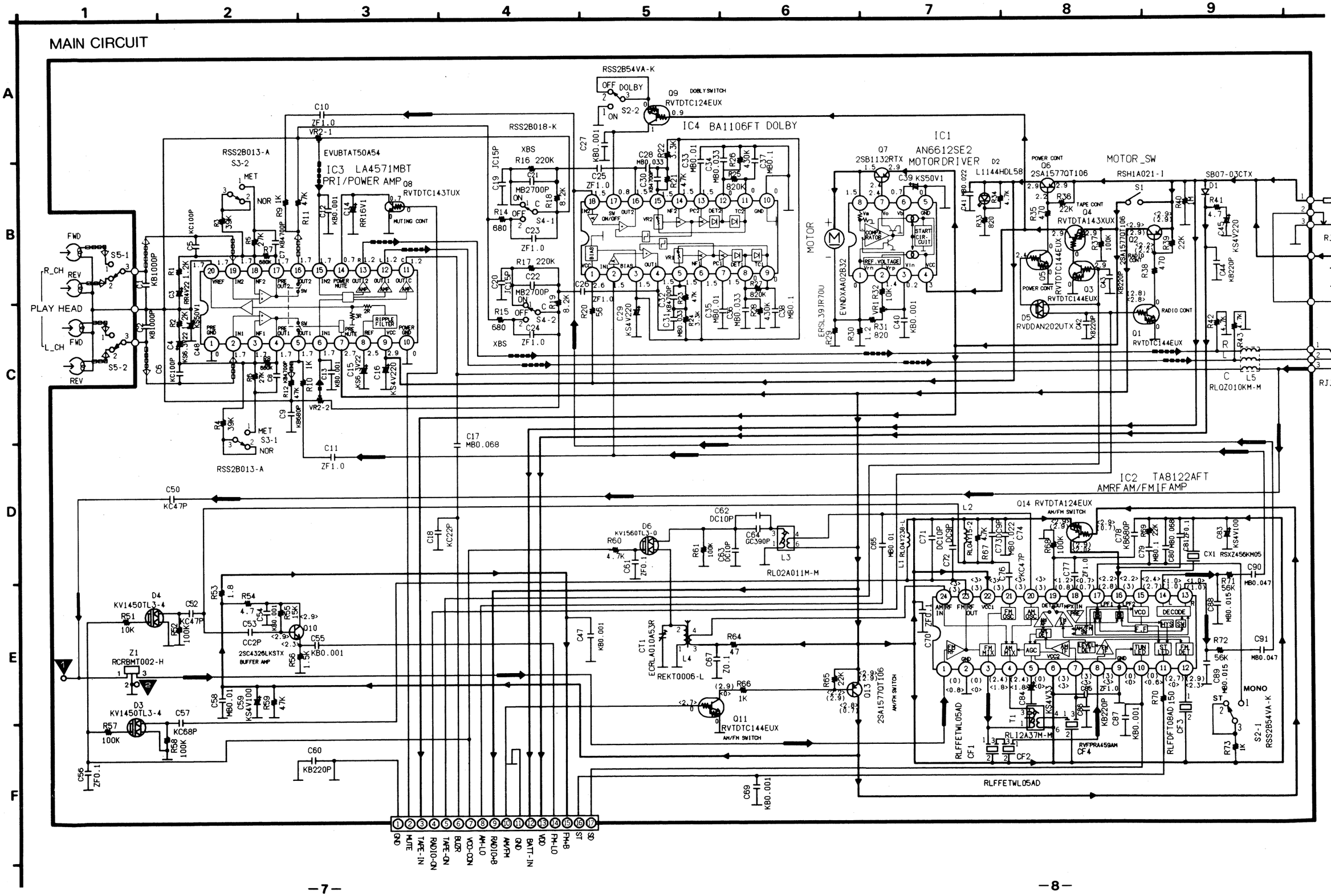
FM ADJUSTMENT

	BAND	SIGNAL GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT POINT	REMARKS
		CONNECTIONS	FREQUENCY				
	FM-RF ADJUSTMENT						
(1)	FM	Connect to test point ▼1 through FM dummy antenna. Negative side to test point ▼2.	87.5 MHz	Variable capacitor fully closed.	Headphones Jack (16Ω) (Refer to Fig.3)	L2 (FM OSC Coil)	(*2) Adjust for maximum output.
(2)	FM		90.1 MHz	Tune to signal.	〃	L1 (FM ANT Coil)	〃
	(*2) Three output responses will be present; proper tuning is the center frequency.						

● TAPE DECK SECTION

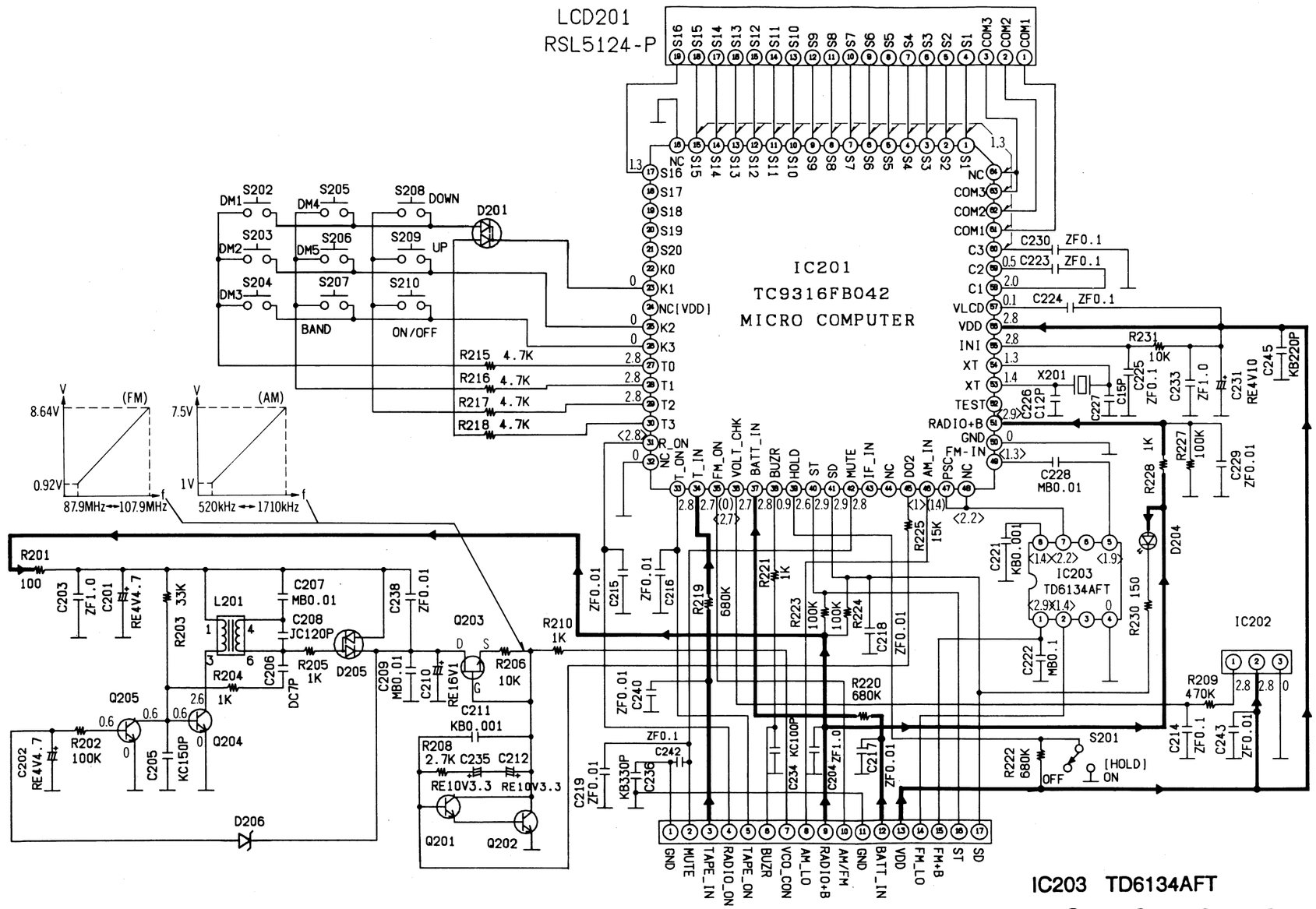
ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
(A) Azimuth	QZZCFM (8kHz, −20dB)	Headphones Jack (16Ω) (Fabricate the plug as shown in Fig. 3 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth adjustment screw (Refer to Fig. 2)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth allgnment with both channels equal. Then screw-lock the adjustment in place.
(B) Tape speed	QZZCWAT (3kHz, −10 dB)		VR1 (Refer to Fig. 1)	Playback the central part of the tape and adjust VR 1 so that the tape speed is as follows. 3000 ± 60Hz (Forward & Reverse)

■SCHEMATIC DIAGRAM



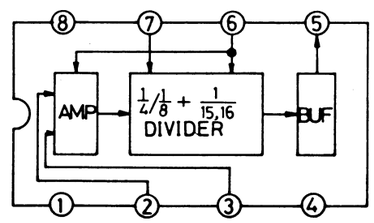
■SCHEMATIC DIAGRAM

LCD CIRCUIT

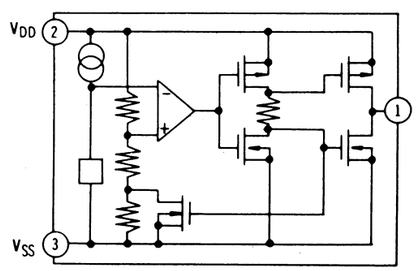


Q204, 205	Q203	Q201, 202	IC203	IC202
2SC4081RTX	2SK303V3TB	2SC4081RTX	TD6134AFT	S80719SLAGT1
DC-DC CONV	FET STABLIZER	POWER SUPPLY CONT	PRE RESET	RESET

IC203 TD6134AFT



IC202 S80719SLAGT1



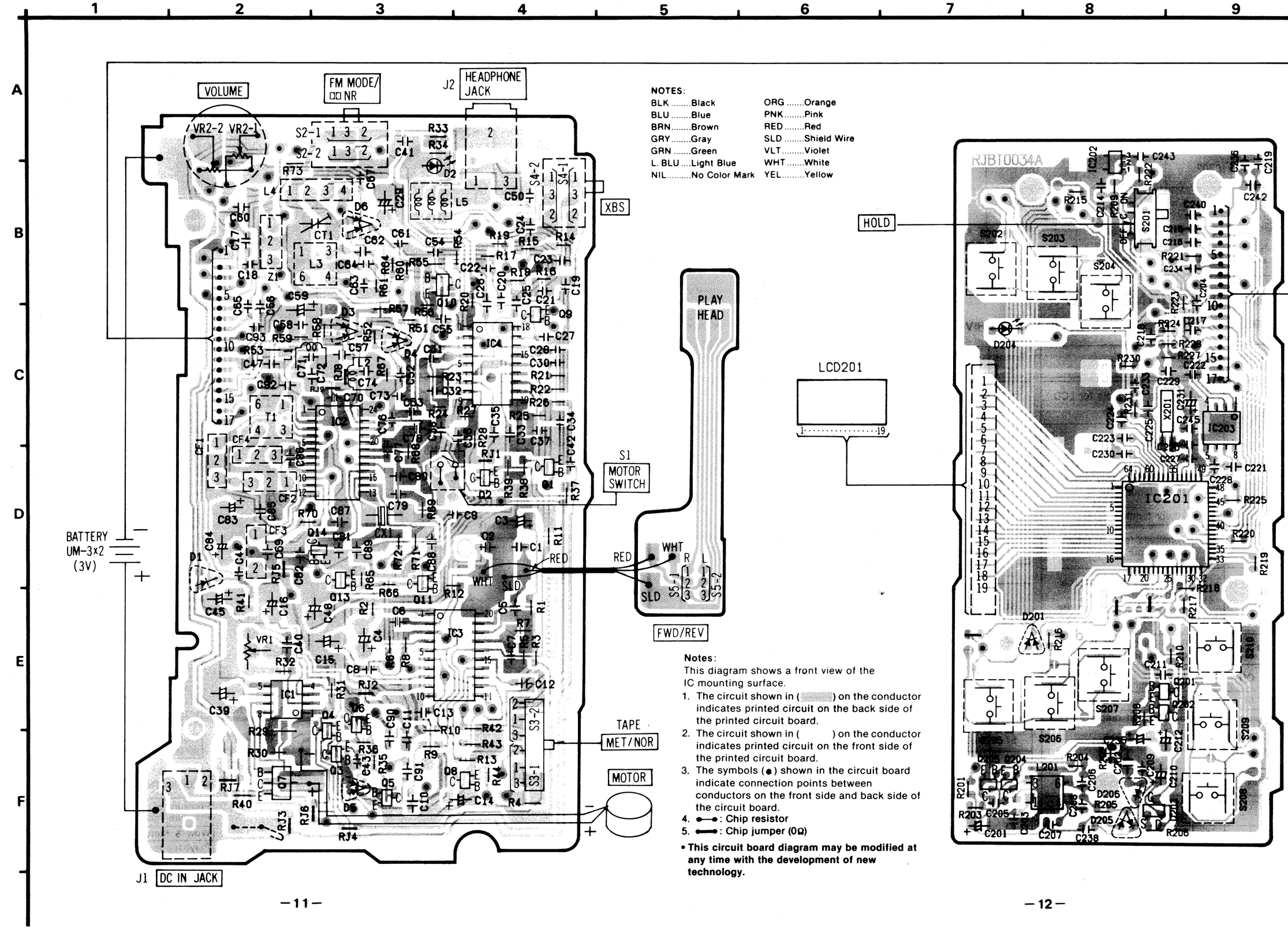
Notes:

- ●S1: Motor switch in "OFF" position.
- ●S2-1: FM mode switch in "ST" position. (1···MONO,2···ST)
- ●S2-2: Dolby NR switch in "OFF" position.
- ●S3-1, 3-2: Tape selector switch in "NOR" position, (1···NOR,2···CrO_2/MET)
- ●S4-1, 4-2: XBS switch in "ON" position. (1···ON, 2···OFF)
- ●S5-1, 5-2: FWD/REV select switch in "REV" position. (1···FWD, 2···REV)
- ●S201: Hold switch in "OFF" position
- ●S202~206: Direct tuning switchs. [S202: 1, S203: 2, S204: 3, S205: 4, S206: 5]
- ●S207: Band/Mode select (• FM/AM/-MODE) switch in "OFF" position.
- ●S208: Tuning down switch in "OFF" position.
- ●S209: Tuning up switch in "OFF" position.
- ●S210: Radio ON OFF switch .
- ●VR1: Tape speed adjustment.
- ●VR2-1: Volume control VR (Rch)
- VR2-2: Volume control VR (Lch)
- ●The mark (▼) shows test point e.g. ▼=test point 1.
- ●DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
  < >···FM position, ( )···AM position.
  No mark·····Playback position
- ●Battery current: Volume minimum output (Radio)····· 75mA
  Volume minimum output (Tape)····· 160mA
  Volume Maximum output (Radio)·····125mA
  Volume Maximum output (Tape)·····200mA
  (Radio, 74dB 30% Modulation. Tape, 315Hz 0dB tape playback)

+B Voltage Line.
Playback Signal.
FM Signal.
Playback and Radio Signal.

- ●**This schematic diagram may be modified at any time with the development of new technology.**

■CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

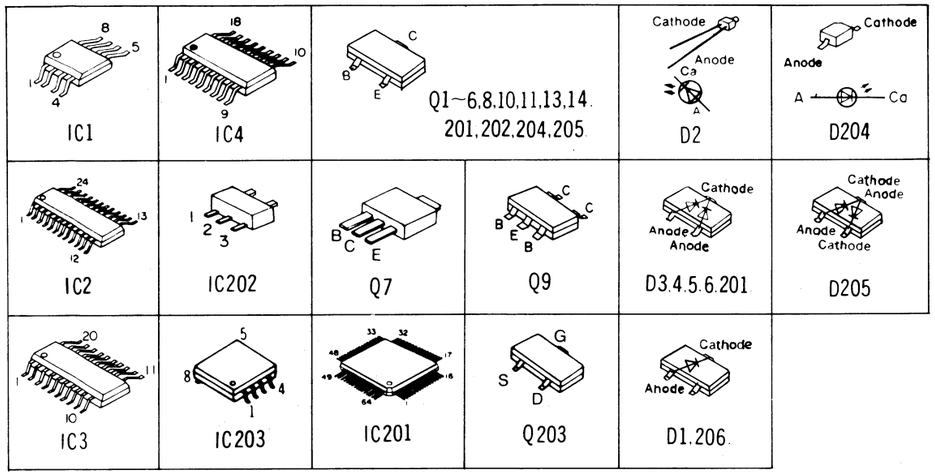


Notes:
This diagram shows a front view of the IC mounting surface.

1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
4. ●—●: Chip resistor
5. ●▬●: Chip jumper (0Ω)

• This circuit board diagram may be modified at any time with the development of new technology.

■TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



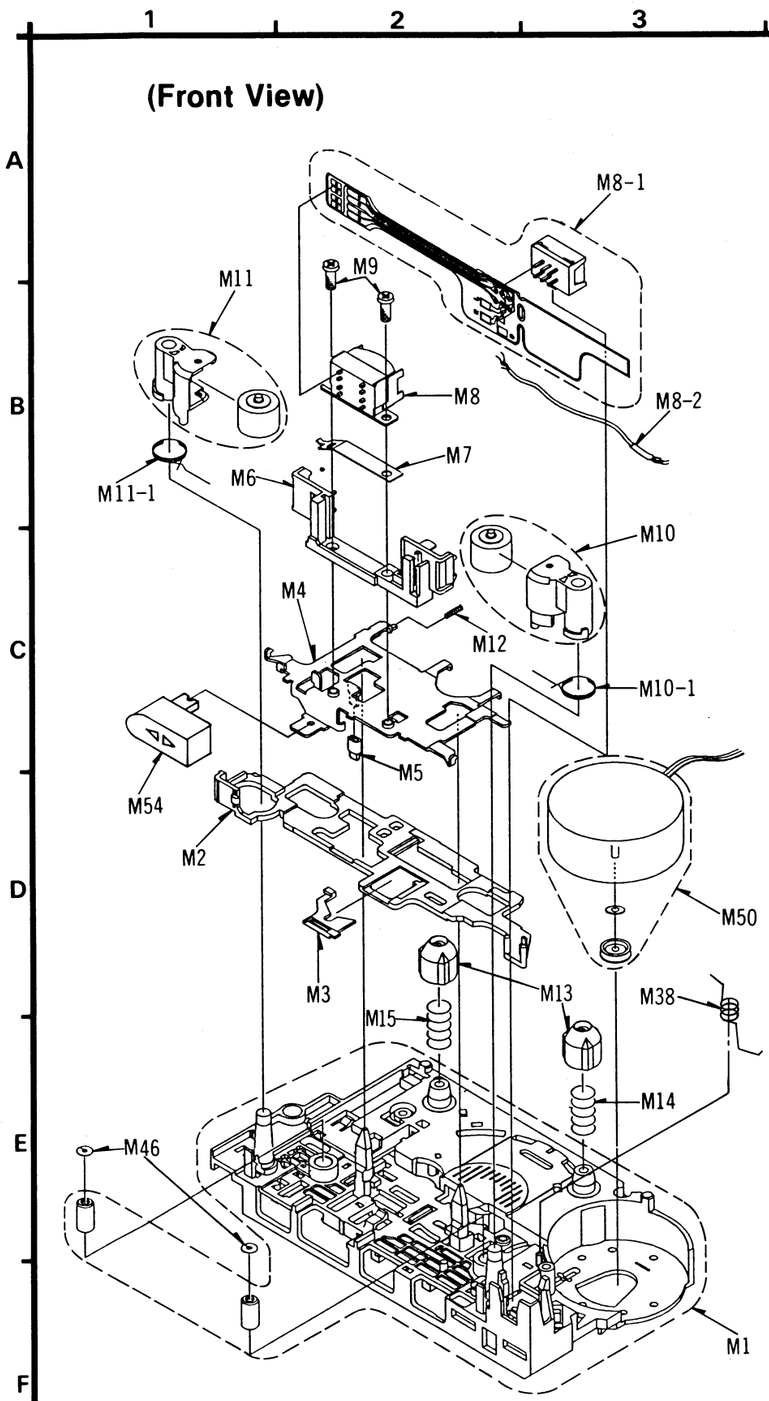
■TERMINAL FUNCTIONS OF IC

●IC201 (TC9316FB042) : SYSTEM CONTROL & LCD DRIVE

Terminal No.	Terminal Name	I/O	Function
1 ~ 15, 17	LCD1 \ LCD16	O	Outputs terminals for LCD segment signals.
16,18 ~ 21,32,43 44,48,64	NC	—	Not connected
22 \ 23	KO \ KI	I	Terminals for Key return signal input.
24, 56	VDD	—	Power terminal.
25 \ 26	K2 \ K3	I	Terminals for Key return signal input.
27 \ 30	TO \ T3	O	Key return signal source output terminals for momentary switch on the key matrix.
31	RADIO ON	O	Radio ON outputs the power out terminal.
33	TAPE ON	O	Tape ON outputs the power out terminal.
34	TAPE IN	I	Data signal input terminal
35	AM/FM	O	Band select output terminal.
36	VCHK	I	Inputs the battery voltagedet signal.
37	BATT IN	I	Data signal input terminal
38	BEEP	O	Outputs the buzzer out terminal.
39	HOLD	I	Data signal input terminal
40	/ST	I	
41	/SD	I	

Terminal No.	Terminal Name	I/O	Function
42	MUTE	O	Muting signal output terminal.
45	VCO CON	O	PLL error output terminal.
46	VCOL (AM IN)	I	Inputs the local oscillator (VCO) (0.5~40MHz)
47	PSC	O	Counter input prescaler.
49	VCOH (FM IN)	I	Inputs the local oscillator (VCO) (10~130MHz)
50	GND	—	For ground connection.
51	RADIO B⊕	I	Radio switch ON radio signal unused on this unit.
52	TEST	I	Test terminal.
53 \ 54	XT	O	Terminals used for connecting a quartz oscillator.
55	/INI	I	Device select signal input terminal.
57	VLCD	—	Condenser external terminals.
58	C1	—	
59	C2	—	
60	C3	—	
61 \ 63	COM1 \ COM3	O	Outputs terminals for LCD common signals.

■ MECHANISM PARTS LOCATION



■ REPLACEMENT PARTS LIST

T Indicates parts that are supplied by TAMACO.

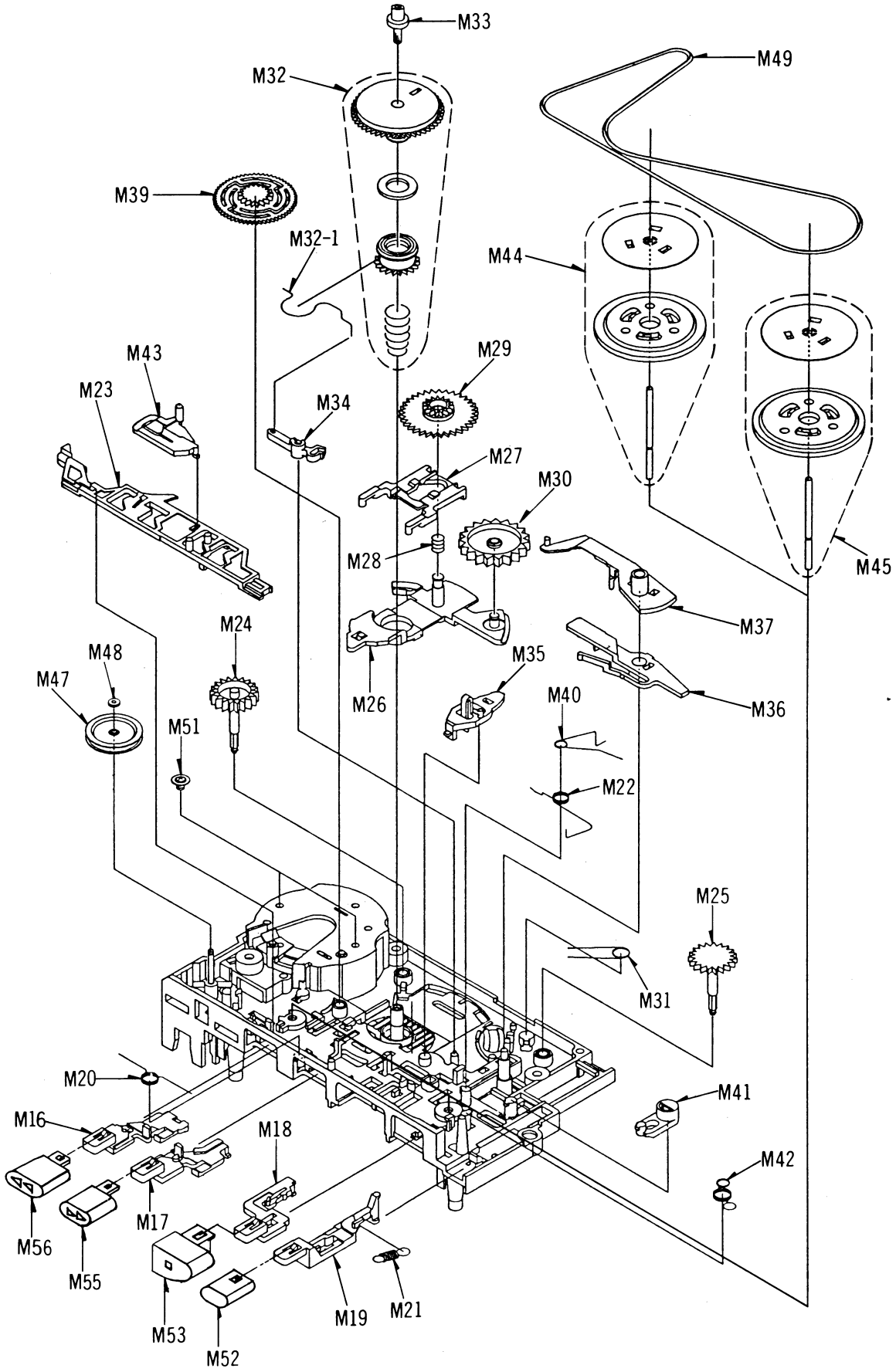
Ref. No.	Parts No.	Parts Name & Description
	MECHANICAL PARTS	
M1 T	RFU227ZA	Chassis Ass'y
M2 T	RFY1048ZA	Plate Slide
M3 T	RFY1049ZA	Sub Slide
M4 T	RFU228ZA	Chassis Head
M5 T	RFX184ZA	CAP H
M6 T	RFE586ZA	Guide Tape
M7 T	RFS959ZA	Plate Spring
M8 T	RFH53ZA	Head
M8-1 T	RFA112ZA	Switch Ass'y
M8-2 T	RFE592ZA	Head Wire
M9 T	RFE588ZA	Screw
M10 T	RFR75ZA	Pinch Arm F Ass'y
M10-1 T	RFS960ZA	Spring
M11 T	RFR76ZA	Pinch Arm R Ass'y
M11-1 T	RFS961ZA	Spring
M12 T	RFS962ZA	Spring
M13 T	RFJ101ZA	Reel CAP
M14 T	RFS963ZA	Spring
M15 T	RFS964ZA	Spring
M16 T	RFY1050ZA	Lever FF
M17 T	RFY1051ZA	Lever REW
M18 T	RFY1052ZA	Lever STOP
M19 T	RFY1053ZA	Lever Direction
M20 T	RFS974ZA	Spring
M21 T	RFS966ZA	Spring
M22 T	RFS967ZA	Spring
M23 T	RFY1076ZA	Plate Lock
M24 T	RFG167ZA	Reel Gear
M25 T	RFG168ZA	Reel Gear L
M26 T	RFY1077ZA	ARM TU
M27 T	RFY1056ZA	Lever Wedge
M28 T	RFS968ZA	Spring
M29 T	RFG169ZA	Gear TU
M30 T	RFG170ZA	Gear Idler B
M31 T	RFS969ZA	Spring
M32 T	RFG172ZA	Clutch Ass'y
M32-1 T	RFS970ZA	Spring
M33 T	RFE589ZA	Screw
M34 T	RFY1057ZA	ARM Sensor
M35 T	RFY1058ZA	ARM Change
M36 T	RFY1059ZA	ARM Cancel D
M37 T	RFY1060ZA	ARM Cancel R
M38 T	RFS986ZA	Spring
M39 T	RFG171ZA	Gear Idler A
M40 T	RFS972ZA	Spring Friction
M41 T	RFY1061ZA	ARM Switch
M42 T	RFS973ZA	Spring
M43 T	RFY1062ZA	ARM Switch
M44 T	RFF93ZA	Flywheel F Ass'y
M45 T	RFF94ZA	Flywheel R Ass'y
M46 T	RFN241ZA	Washcr
M47 T	RFQ74ZA	Pulley Idler
M48 T	RFN242ZA	Washer
M49 T	RFB123ZA	Belt
M50 T	RFM195ZA	Motor Ass'y
M51 T	RFE590ZA	Screw
M52 T	RGUT0001-K	Direction Knob
M53 T	RGUT0002-K	Button Stop
M54 T	RGUT0003-K	Button Play
M55 T	RGUT0004-K	Button REW
M56 T	RGUT0005-K	Button FF
M57 T	RFN244ZA	Washcr

SPECIFICATIONS

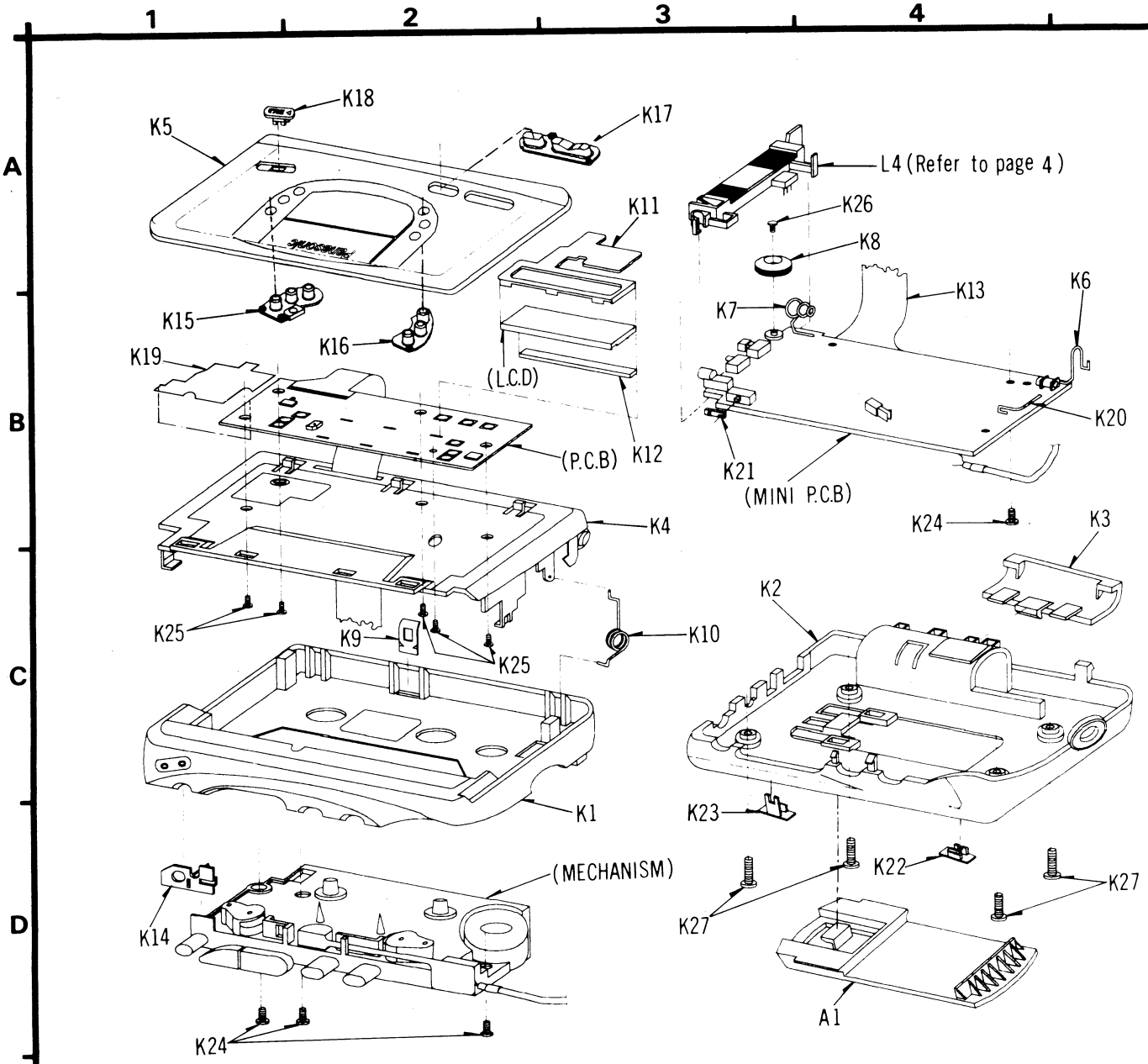
Pressure of Pressure roller	160gr
Wow & flutter	Less than 0.5% (WRMS)
Playback torque	20~ 45gr-cm
FF torque	50~150gr-cm
REW torque	50~150gr-cm

6 7 8 9

(Rear View)



■ CABINET PARTS LOCATION



■ REPLACEMENT PARTS LIST

T Indicates parts that are supplied by TAMACO

Ref. No.	Parts No.	Parts Name & Description
	CABINET PARTS	
K1 T	**RKMT0006G-K**	Front Cabinet
K2 T	**RFKKQV196EG**	Rear Cabinet Ass'y
K3 T	**RKKT0007-K**	Battery Cover
K4 T	**RKFT0006-K**	Cassette Holder
K5 T	**RKWT0009-Q**	Panel
K6 T	**RJCT30004**	Battery Terminal +
K7 T	**RJCT70001**	Battery Terminal −
K8 T	**RGWT0007-K**	Volume Knob
K9 T	**RUS231TZB**	Tape Spring
K10 T	**RUS260TZA**	Torque Spring
K11 T	**RMNT0010**	L.C.D Holder
K12 T	**RSQT0002**	Electric Gum
K13 T	**RJBT0019A-1**	FPC P.W.B
K14 T	**RGQT0001-G**	Direction Piece
K15 T	**RGUT0019-K**	Direct Button
K16 T	**RGUT0020-K**	Band Button
K17 T	**RGUT0021-K**	Tuning Button
K18 T	**RGVT0008-K**	Side Knob (Hold)
K19 T	**RMZT0002**	Shield Sheet
K20 T	**RMET0002**	PWB Earth Terminal
K21 T	**RMQT0001**	SW.Fixed Piece
K22 T	**RGVT0010-K**	Tape Knob
K23 T	**RGVT0001-K**	Slide Knob
K24 T	**RHD003TZA**	Screw
K25 T	**XTNR17+4CFZ**	Screw
K26 T	**XSH17+3.5**	Screw
K27	**XTNR2+10CFZ**	Screw
	ACCESSORY	
A1 T	**RKQT0002-K**	Belt Clipper
A2 T	**RFEV310P-KS**	Headphones
A3 T	**RQTT0081-E**	Instruction Manual
	PACKING MATERIALS	
P1 T	**RPKT0037**	Decoration Box
P2 T	**RPFT0001**	Polyethylene Cover

TAMACO Printed in Taiwan
941211000TY/MA